Putting the pieces together – Benchmarking, RCx, Retrofit and Demand Response

California Commissioning Collaborative
Nov 6, 2008 Meeting
Keith Forsman, Customer Energy Efficiency

California Strategic Plan, 2009-2020
www.californiaenergyefficiency.org

Commercial buildings will be put on a path to zero net energy by 2030 for all new and a substantial proportion of existing buildings. Innovative technologies and enhanced building design and operation practices will dramatically grow in use in the coming years through a combination of comprehensive whole building programs, technology development, market pull, professional education, targeted financing and
The ZNE goal must promote an integrated design strategy. Integrated design brings together all relevant players at the start of a building project, buildings and renovations, at little or no additional cost to the building owner. Integrated design can go beyond individual buildings and consider community-level energy and carbon impacts. Led by the utilities’ energy efficiency programs, the Energy Commission and the BSC, in partnership with the AIA, ASHRAE, USGBC, the California Architects Board, and construction and development organizations, should promote the use of building commissioning, retro-commissioning, and ongoing building measurement and verification to validate the building performance goals of integrated design teams.

Commercial Section of Strategic Plan

Great News for the Cx and RCx Industry!
Commercial Section of Strategic Plan

- Emphasis on ZNE buildings
- Emphasis on Operations
  - Benchmarking
  - Labeling
  - Commissioning (including RCx)
- Emphasis on new financial tools
- Emphasis on whole building design
Sequencing and Integrating the Services – PG&E’s Perspective

- Benchmarking as point of entry
- RCx as logical next step
- Major retrofits as appropriate
Sequencing and Integrating the Services

Next Steps?

Thank You